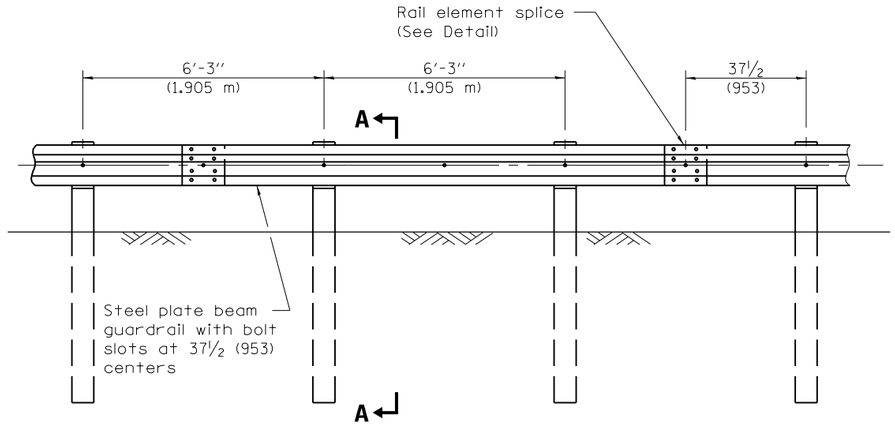
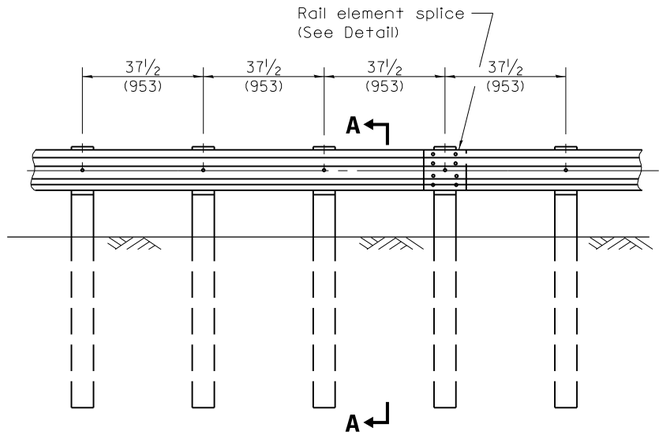


ELEVATION

TYPE A

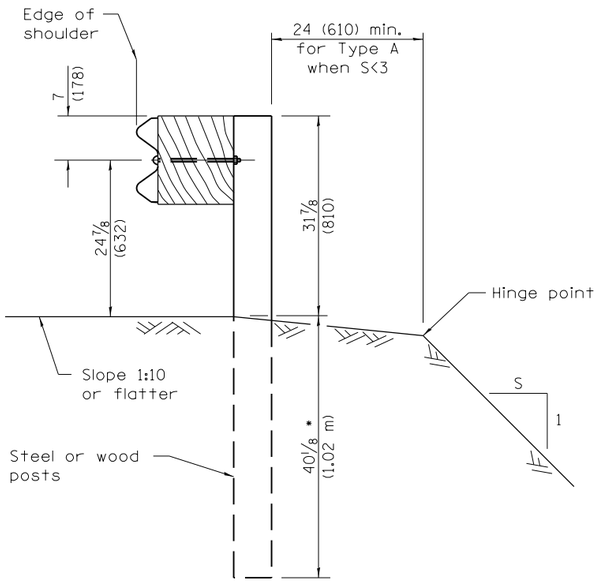
6'-3" (1.905 m) Typical post spacing



ELEVATION

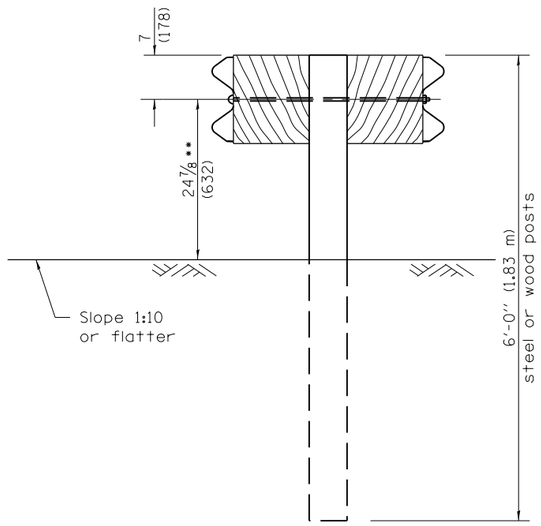
TYPE B

37½ (953) Closed post spacing



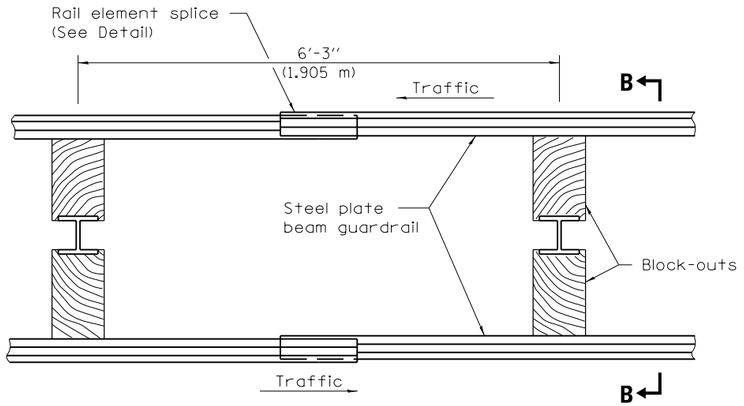
SECTION A–A

* When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post shall be steel and the embedment shall be 76⅛ (1934).



SECTION B–B

** When connecting Type D guardrail to an impact attenuator, adjust this dimension to 21⅞ (556) over a distance of 25'-0" (7.62 m) from point of connection.



PLAN

TYPE D

Double steel plate beam guardrail
6'-3" (1.905 m) typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2012
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2012
Scott Bess
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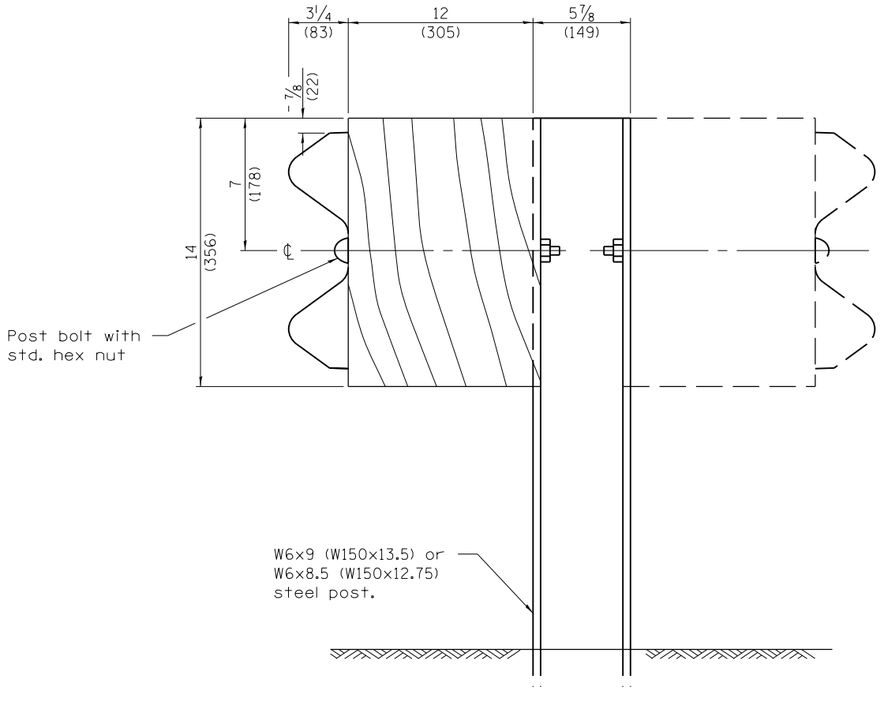
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Added req. for 9 ft. posts
	to be steel. Modified set
	back of g'rail behind curb.
1-1-11	Added note to Section B-B
	for conn. to impact att.
	Revised table on Sheet 4.

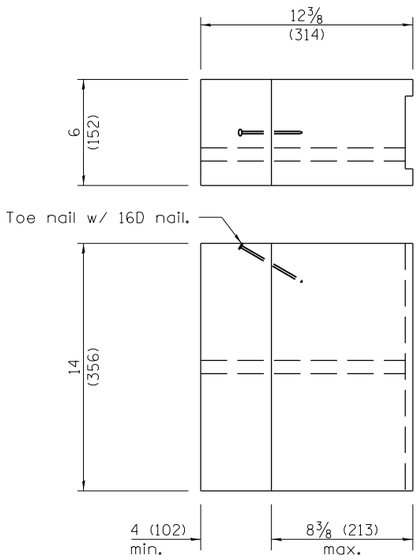
STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

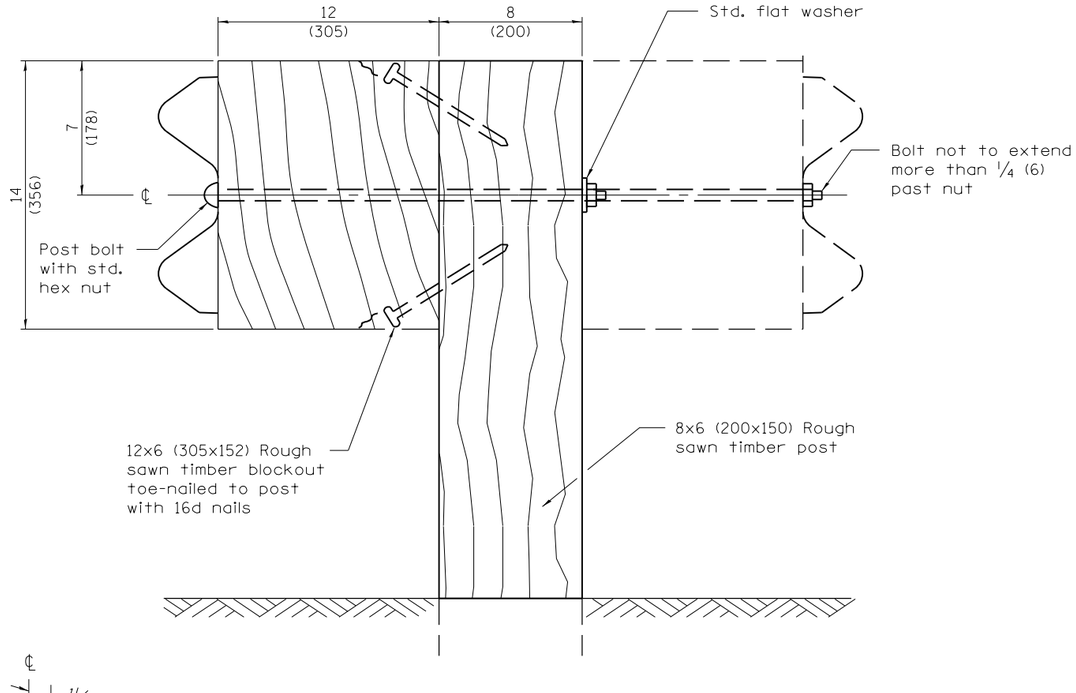
STANDARD 630001–10



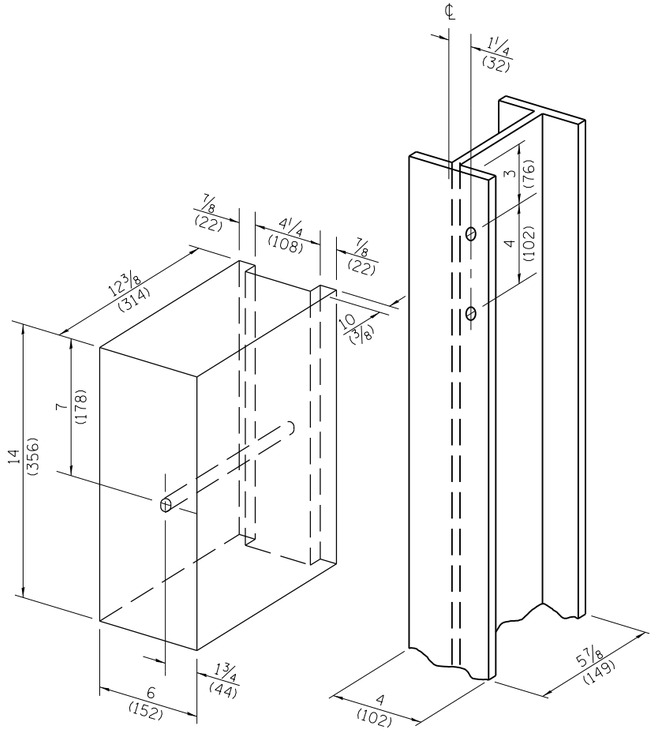
STEEL POST CONSTRUCTION



TWO–PIECE WOOD BLOCKOUT OPTION

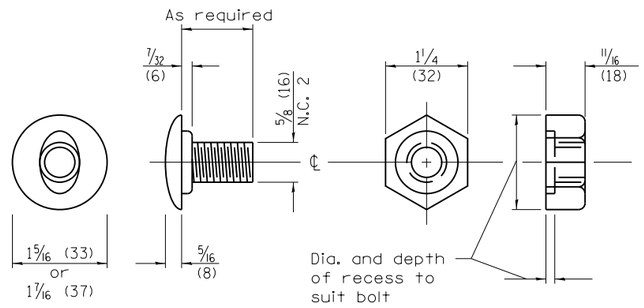


WOOD POST CONSTRUCTION



Note:
All holes ¾ (20) dia.

WOOD BLOCK–OUT AND STEEL POST DETAILS



POST OR SPLICE BOLT & NUT

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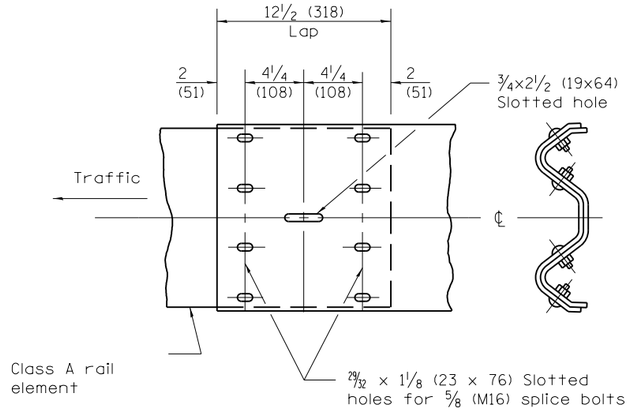
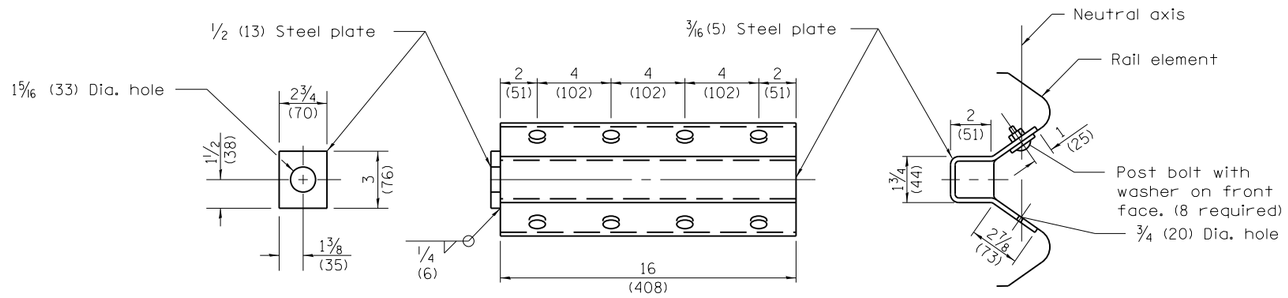
STEEL PLATE BEAM GUARDRAIL

(Sheet 2 of 4)

STANDARD 630001–10

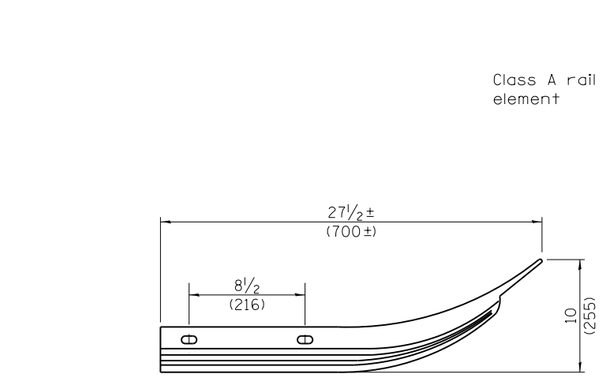


RAIL ELEMENT SPLICE

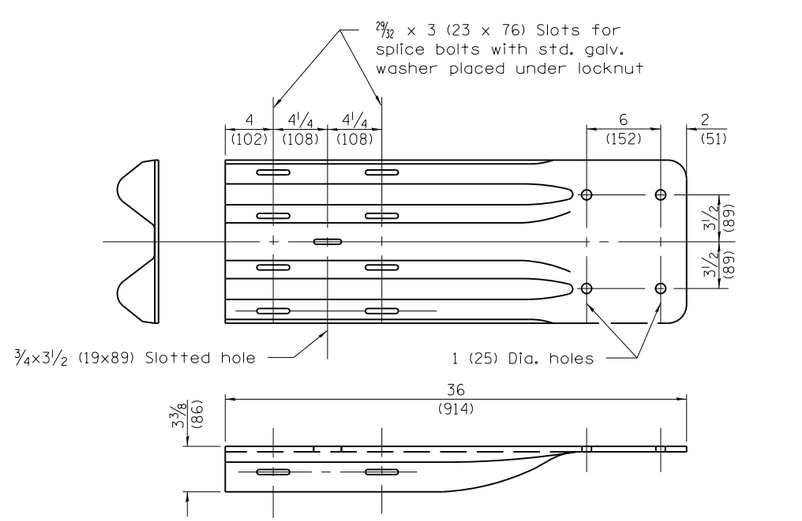


NOTE
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION

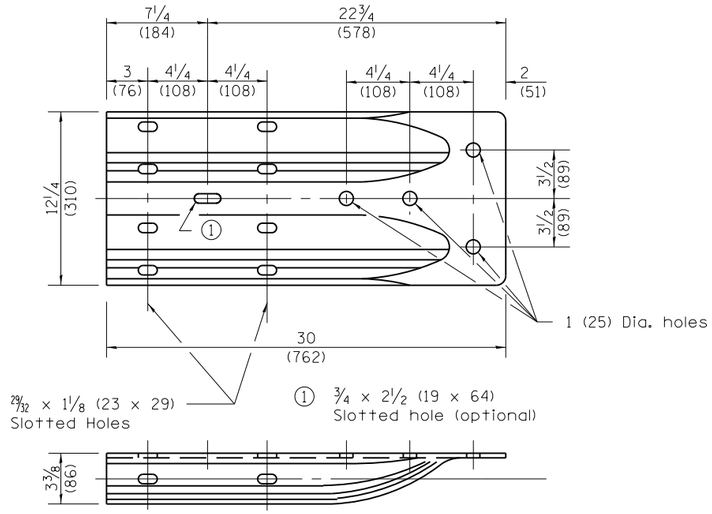


NOTE
When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

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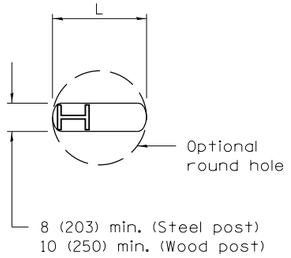
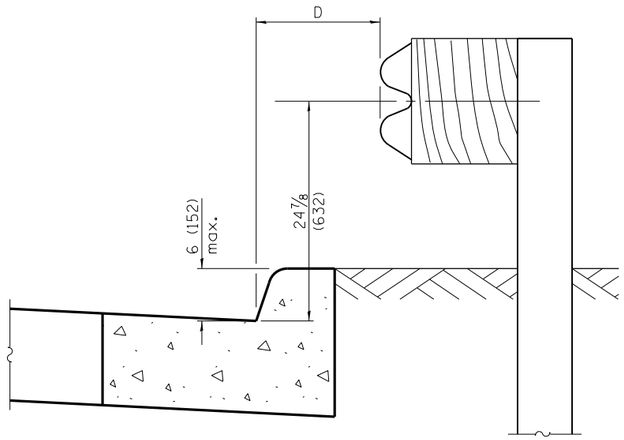
STEEL PLATE BEAM GUARDRAIL

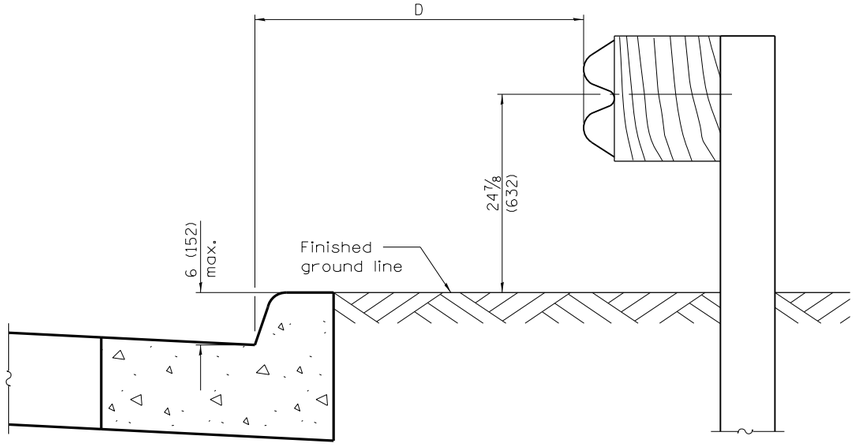
STANDARD 630001–10



PLAN



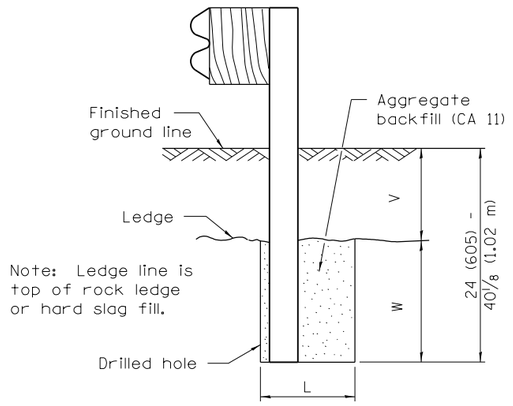
0 ≤ D < 4'–0" (1.2 m)



4'–0" (1.2 m) ≤ D ≤ 12'–0" (3.7 m)

GUARDRAIL PLACED BEHIND CURB

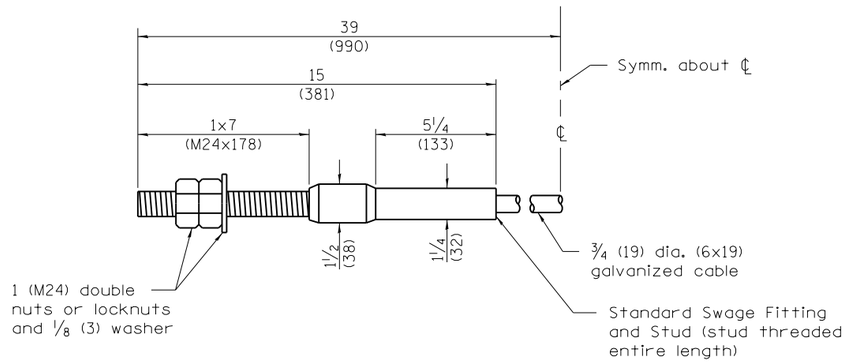
Note: 'D' shall not exceed 6 (152) for design speeds greater than 45 mph.



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	W	L	
		Steel Post	Wood Post
0 - 6 (0 - 152)	24 (610)	21 (530)	23 (580)
> 6 - 18 (> 152 - 458)	18 (458)	14½ (368)	16½ (419)
> 18 - 31 (> 458 - 787)	12 (305)	8 (203)	10 (250)
> 31 - 40⅛ (> 787 - 1.02 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



CABLE ASSEMBLY

(40,000 lbs. (18,100 kg) min. breaking strength)
Tighten to taut tension.

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STEEL PLATE BEAM GUARDRAIL

STANDARD 630001–10